iGEM Collaboration Delft & Wageningen

Protocol

1. The following strain were grown on LB-agar plates with chloramphenicol:
    a. mVenus
    b. mKate
    c. mCerulean
    d. GFP + promotor J23100
    e. GFP + promotor J23105
    f. GFP + promotor J23108
    g. GFP + promotor J23113
    h. GFP + promotor J23117
2. From all strains a colony was picked and grow in 5mL LB + chloramphenicol overnight.
3. From all liquid cultures an aliquot of 1000 µL was put into an 1,5 mL Eppendorf tube.
4. The aliquots were centrifuged for 2 minutes at 15000xg.
5. The cell pellet was re-suspended in 1 mL PBs and centrifuged down for 2 minutes at 15000xg.
6. The supernatant was discarded.
7. Step 5 and 6 were repeated 2 times.
8. The cell pellet was re-suspended in 1mL PBS.
9. The solutions were brought into a 96-well plate as follows:

	Undiluted				10x diluted				100x diluted			
mVenus	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
mKate	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
mCerulean	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
GFP + promotor J23100	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
GFP + promotor J23105	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
GFP + promotor J23108	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
GFP + promotor J23113	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
GFP + promotor J23117	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12

10. The OD, the excitation spectrum, and the emission spectrum were measured with the following values:

Strain	Excitation Wavelength (nm)	Emission wavelength (nm)	OD (nm)
mVenus	510	528	600 & 660
mKate	558	633	600 & 660
mCerulean	433	475	600 & 660
GFP + promotor J23100	488	509	600 & 660
GFP + promotor J23105	488	509	600 & 660
GFP + promotor J23108	488	509	600 & 660
GFP + promotor J23113	488	509	600 & 660
FP + promotor J23117	488	509	600 & 660